

January 10, 2014

US Environmental Protection Agency Water Enforcement, OES4-SMR 5 Post Office Square, Suite 100 Boston, MA 02109-3912

Re: CSO Annual Report / Taunton, MA

Year 2013

NPDES Permit No. MA0100897

Dear Ms. Williams:

In accordance with the requirements of NPDES Permit No. MA 0100897, (Part I, Section D.3), Combined Sewer Overflow limitations, I hereby certify that the monthly inspections of the CSO, Outfall 004, for the calendar year 2013 have been conducted, results recorded and records maintained. A work order generation and reporting system is utilized through our computerized operation and maintenance program. A summary of the 2013 CSO maintenance inspections is included as Attachment 1. All records are maintained for at least six years as required by the permit.

The CSO is located on the 40" West Water Street interceptor upstream of the Main Lift pump station. It is located behind the Taunton Municipal Light Plant at 500 West Water Street (Latitude: 41.880707, Longitude: 071.093336). The overflow structure contains an overflow weir and scum baffle. Discharge is to an outfall manhole containing a bar rack. The overflow weir is set at two elevations in the overflow structure. Pressure sensors are located on the sewer side of the weir wall and in the 48" outfall pipe. An ultrasonic probe is also located on the river side of the weir. When the level in the 40" combined sewer exceeds the weir levels, overflow to the Taunton River occurs. The pressure sensors are connected to a Sigma model #930 flow meter which measures the overflow rate and volume. Data obtained by the flow meter is logged into the SCADA system. A duckbill, installed at the outfall in the river, prevents tidal flow from entering the pipe and collection system. A diagram of the CSO structure is included as Attachment 2.

Phone: 508-823-3582, Fax: 508-880-7566

During the year 2013 there were three CSO events as summarized in Table 1 below.

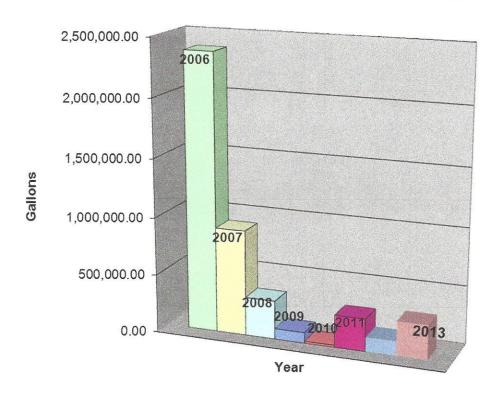
Table 1

	CSO	Duration		
Date	Flow MG	Of Event	Rain inches	
3/14/2013	1.971	3/12, 20:38 – 01:01 3/13, 08:40 – 11:50	0.88	
6/7 - 6/8	1.276	6/7, 20:45 – 6/8, 14:56	4.36	
6/14/2013	0.285	07:28 - 15:47	3.68	

Below are 2 graphs of CSO gallons per inch of rain for the past eight years. Graph 1 does not include the record breaking rainfall of late March and early April 2010. Graph 1 clearly illustrates that the gallons of combined sewer overflow per inch of rain continues to decline.

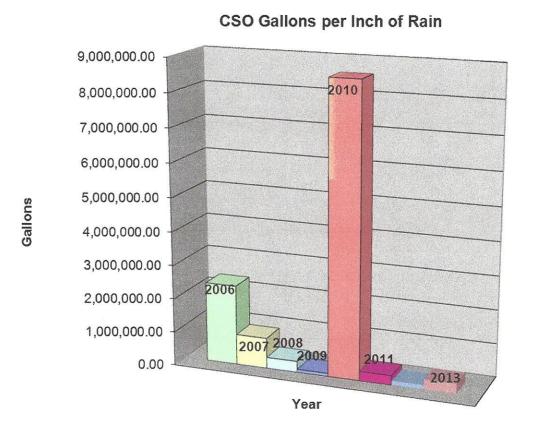
Graph 1

CSO Gallons per Inch of Rain without 100 year storm



Graph 2 illustrates the CSO gallons per inch of rain with the March and April 2010 rain events included. These two rain events exceeded 12 inches of rain in a 3-week period, and both storms were considered a "100 year rain event".

Graph 2



In 2013, the CSO outfall was active with a rain event of 0.88 inches. This event was a very intense thunderstorm that lasted only a short period of time. This was the minimum amount of rain that resulted in the CSO activating in the past eight years. For comparison purposes, rain events that exceeded 1.5 inches for the past 3 years have been included in the graph, even if they did not result in a CSO event. The data shows that in 2013, there was one other major rain event with 3.12 inches of rain. This did not result in the CSO becoming active. Overall, the frequency of CSO activity as well as the CSO gallons per inch of rain continues to decline. See table 2 below for a summary of data.

Table 2

		CSO		
Year	Date	Flow	CSO Gallons	Rain inches
2006	6/7/2006	13.768	13,768,000	4.65
	6/25/2006	1.471	1,471,000	1.76
2007	2/14/2007	0.355	355,000	1.74
	3/2/2007	0.408	408,000	2.22
	3/17/2007	2.222	2,222,000	2.56
	4/16/2007	5.684	5,684,000	3.02
2008	2/13/2008	0.179	179,000	2.76
	3/8/2008	2.19	2,190,000	2.93
	7/23/2008	0.059	59,000	1.91
	9/6/2008	0.208	208,000	3.78
	9/27/2008	0.008	8,000	4.72
	12/12/2008	3.911	3,911,000	3.79
2009	7/2/2009	0.091	91,000	1.46
2010	2/25/2010	0.053	53,000	3.22
	3/14 - 3/20	63.32	63,320,000	4.96
	3/29 - 4/5	72.849	72,849,000	7.66
2011	2/25/2011	1.1875	1,187,500	2.18
	8/8/2011	0	0	1.7
	8/15/2011	0	0	1.84
	8/28/2011	0	0	1.52
	9/6/2011	0	0	1.75
	9/8/2011	2.4745	2,474,500	2.47
	11/23/2011	0	0	1.79
2012	4/22/2012	0	0	2.12
	8/10/2012	0.96892356	968,924	1.33
	9/5/2012	0	0	4.46
013	3/14/2013	1.971	1,971,000	0.88
	6/7 - 6/8	1.276	1,276,000	4.36
	6/14/2013	0.285	285,000	3.68
	11/27/2013	0	0	3.12

As the data indicates, the City of Taunton continues to aggressively remove inflow and infiltration from the system. In the past eight years the City has removed an estimated 6 million gallons per day of I/I. A summary report of I/I removed will be detailed in the annual I/I report submitted in February 2014.

Since August 2006, when the City contracted Veolia Water to operate and maintain the sanitary sewer system, the City has cleaned 267 miles of sewer and removed 1178 tons of debris. Please see table 3 below.

Table 3

Yeolia Sanitary Sewer Collection System Contract Summary									
According to 1 to 1	Cleaned	Televised	Debris						
Year	Miles	Miles	Removed Tons						
1	61.71	9.75	290.98						
2	35.65	28.49	261.92						
3	26.66	11.71	100.19						
4	24.60	18.27	69.84						
5	31.42	18.61	112.78						
6	33.95	16.36	145.64						
7	34.33	17.89	165.17						
8	18.82	7.26	31.32						
TOTALS	267.13	128.36	1177.84						

Removal of debris from the sewer pipes has greatly increased the capacity of the collection system. It is estimated that this has created a hydraulic capacity of 237,877 gpd. (Industry Standard 74 lbs/cu. ft. debris. 27 cu ft = 1 cu yd = 2000 lbs (1 ton) = 7.48 gal/cu ft.)

During this same time period the City spent roughly \$20,000,000 in improvements and repairs to the sanitary sewer and the storm drain systems. The City has committed to spend an additional \$5,500,000 during 2013 to continue repairs, separation and improvements.

In summary, this report shows that the City continues to implement the Nine Minimum Control Program by properly operating and maintaining its sewer system and maximizing use of the collection system for storage. The City, through its subcontractor Veolia Water, has a regular maintenance program to control solid and floatable materials in the CSO. In the event that a CSO does occur, immediate notification is provided to Rhode Island DEM, Massachusetts DEP, Southeast Division and EPA, Boston. During 2013, no dry weather overflows occurred at the CSO (Outfall 004). Veolia Water administers the City's Industrial Pretreatment Program through which industries are permitted, required to conduct self-monitoring, inspected and subjected to random unannounced sampling events. Under the City's Pollution Prevention Program, Veolia Water hosts an annual household hazardous waste collection day. In addition, the City's municipal landfill, operated by Waste Management, collects paints, fluorescent bulbs, and waste oil during all hours of operation.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Sincerely,

Darlene Domingos, Project Manager

Cc:

Fred Cornaglia, DPW Commissioner, City of Taunton

David Burns, DEP SERO

John Oatley, Area Manager, Veolia Water

Attachments

1 – CSO Maintenance Inspection Reports

2 – Diagram of the CSO Structure

3 – CSO Flow Trends and Totals for Each Event

ATTACHMENT 1 CSO MAINTENANCE INSPECTION REPORTS

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Work Order

Priority: 12

Deficiency Tag:

Work Type: PM

Est. Start Date:

11/14/13 11:44

External

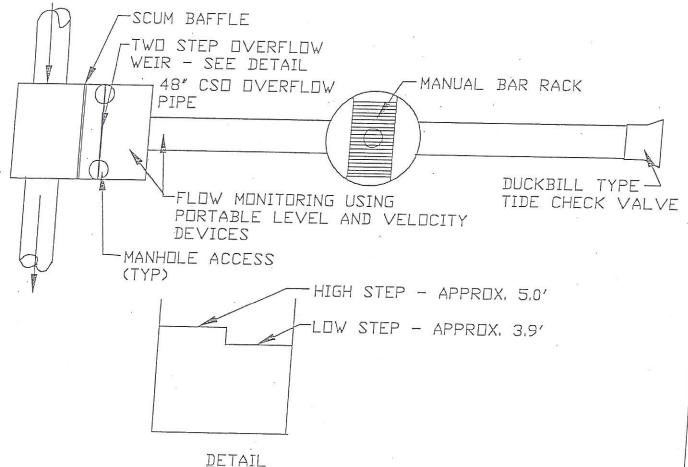
Required: 01-NOV-	-13	Task Statu	ig: is: ACTIVE		1301402	TOTAL CONTROL OF THE PROPERTY	1)
Requestor: SYNERGEN Assigned To: Crew: MAINT MAINTENANCE TECHNICIAN Task Desc.: MONTHLY INSPECTION OF EQUIPMENT \ SEWER OVERFLOW STRUCTURE				ERFLOW	Task 01		Page: 2
Asset: E / 100000	00342 - SEW	ER OVERFLOW			81		
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Work Type: PM		Priority: 8					
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Requestor: SYN	VERGEN	Assigned To					
Crew: MAI	NT MAINTEI	NANCE TECHNIC			Task	A CONTRACTOR OF THE PROPERTY O	
Task Desc.: MON	NTHLY INSPECTION			ERFLOW	01		_
		LICTURE COMPIN	IED OF LIES				Page: 52
Alias: P01CSO	000000342 - STRI	DCTURE, COMBIN	IED SEWER OV	ERFLOW			II)
Bldg: CSO - CSO			Loc	" (0)	MPLETPOS		
Task Note Type	Notes						
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ollow-up Action Requir	ed:		orn.		ode	-	
		-					
Signature:					12/	Date: 17	2-20-13
			- 100 to		5	Date. 12	(1 22 /

ATTACHMENT 2
DIAGRAM OF THE CSO STRUCTURE

40" COMBINED SEWER



DETAIL

OVERFLOW

WEIR FROM

COMBINED

SEWER SIDE

FIGURE 3.1-2 COMBINED SEWER OVERFLOW

ATTACHMENT 3

CSO FLOW TRENDS AND TOTALS FOR EACH EVENT

